

Amendments to the Specification:

Please replace the paragraph at page 20, from line 13 through line 23, with the following paragraph:

-- To amplify a sequence encoding *R. reniformis* GFP from an *R. reniformis* cDNA library the following approach was taken. The *R. reniformis* GFP coding sequence was amplified using the 5' primer 5'-

AATTATTAGAATTCAACCATGGTGAGTAAACAAATATTGAAGAAC-3' (SEQ ID NO: 5) and the 3' primer 5'-ATAATATTCTCGAGTTAACCAATTCTGTGTAAGGATCC-3' (SEQ ID NO: 6). The 5' contains an *EcoR* I recognition site to facilitate subsequent cloning of the amplified fragment, followed by the Kozak consensus translation initiation sequence ACCATGG (SEQ ID NO: 7). The 3' primer contains an *Xho* I recognition site to facilitate cloning of the amplified fragment. Oligonucleotides may be purchased from any of a number of commercial suppliers (for example, Life Technologies, Inc., Operon Technologies, etc.). Alternatively, oligonucleotide primers may be synthesized using methods well known in the art, including, for example, the phosphotriester (see Narang, S.A., et al., 1979, Meth. Enzymol., 68:90; and U.S. Pat.No 4,356,270), --

Please replace the paragraph at page 47, from line 20 through line 23, with the following paragraph:

-- The *R. reniformis* chromophoric center is comprised of amino acids 64-69 of the wild-type polypeptide, which has the sequence FQYGNR (SEQ ID NO: 8). Mutation of this amino acid sequence at one or more positions, using for example, standard site-directed or limited random mutagenesis or its equivalent, can give rise to *R. reniformis* variants exhibiting enhanced fluorescence--

The following Listing of the Claims will replace all prior versions and all prior listings of the claims in the present application:

Listing of The Claims:

1. (Currently Amended) A humanized polynucleotide, said polynucleotide encoding R. Renilla reniformis GFP having the sequence of SEQ ID NO: 2.
2. (Currently Amended) The humanized polynucleotide of claim 2 1, wherein said polynucleotide comprises the sequence of SEQ ID NO: 3.
3. (Currently Amended) A recombinant vector comprising a polynucleotide of any one of claims 1-3 2.
4. (Currently Amended) A cell containing a recombinant vector of claim 4 3.
5. (Currently Amended) A method of producing R. Renilla reniformis GFP having the sequence of SEQ ID NO: 2 comprising the steps of:
  - a) introducing a recombinant vector comprising a humanized polynucleotide sequence encoding R. reniformis GFP to a cell;
  - b) culturing the cell of step (a); and
  - c) isolating R. reniformis GFP from said cell.
6. (Currently Amended) The method of claim 6 5, wherein said humanized sequence encoding R. reniformis has the sequence shown in SEQ ID NO: 3.
7. (Currently Amended) The method of claim 6 5 wherein said cell is a bacterial cell.
8. (Currently Amended) The method of claim 6 5 wherein said cell is a eukaryotic cell.

9. (Currently Amended) The method of claim 10 8 wherein said cell is a eukaryotic  
mammalian cell.

10. (Currently Amended) The method of claim 11 9 wherein said mammalian cells—are is  
human.